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What is claimed is:

1. A scrap submergence device comprising:

a body comprised of a refractory material that defines a submergence chamber, the body including at least one passage; and

a rod in the passage, wherein the rod is placed under tension to impart a compressive load on the body.

- 2. The device of claim 1, further comprising a biasing member disposed at one end of the rod for applying a compressive force on the body.
- 3. The device of claim 2, further comprising a retaining element at an end of the rod opposite the biasing member.
- 4. The device of claim 1, wherein the body includes a vertically upward sloped inlet passage for allowing material to enter the submergence chamber.
- 5. The device of claim 4, wherein the inlet passage is at least substantially tangential to an inner surface of the submergence chamber.
- 6. The device of claim 5, wherein the body defines an outlet opening at substantially a same height within the submergence chamber as an inlet opening.
- 7. The device of claim 1 further comprising a side wall element and abase element interconnected via the rod.
- 8. The device of claim 1, further comprising a frame at least partially surrounding at least to an upper portion of the body.
- 9. The device of claim 1, further comprises a plurality of rods within passages in said body.
 - 10. A metal scrap submergence device comprising:

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a body comprising a side wall and a base, the side wall including an at least substantially vertically oriented passage, and the base including an at least substantially vertically oriented passage aligned with the passage in the side wall;

a rod received in both of the passages;

an inlet passage disposed in at least one of the side wall and the base for allowing molten material to enter the scrap submergence device; and

an outlet passage disposed in the base for allowing molten material to exit the scrap submergence device.

- 11. The device of claim 10, wherein the side wall is removably mounted to the base.
- 12. The device of claim 11, wherein the one of the side wall and the base includes a notch and the other includes a cooperating protrusion received in the notch when the side wall and the base are joined.
- 13. The device of claim 10, further comprising means for contolling vortex flow of molten metal inside the submergence device.
- 14. The device of claim 10, further comprising an outlet extension tube connected to the body and in communication with the outlet passage.
- 15. The device of claim 10, further comprising a riser tube extending upwardly from the base and in communication with the outlet passage.
- 16. The device of claim 10, wherein the body defines a gas injection inlet in communication with the submergence device and an associated gas source.
- 17. The device of claim 10, further comprising a frame connected to the side wall, the frame being adapted to limit thermal expansion or thermal contraction of the side wall.
- 18. A method for extending the life of a material submergence device comprised of a refractory material and shaped to generate a metal vortex flow,

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the method comprising confining the material submergence device with a structure made from a material that has a greater tensile strength than the refractory material.

- 19. The method of claim 18, wherein the structure comprises a rod under tension.
 - 20. The method of claim 18, wherein the structure comprises a frame.
 - 21. A furnace comprising:
 - a submergence device well;
 - a pump well in communication with the submergence device well;
 - a dross well in communication with the submergence device well;
 - a removable submergence device disposed in the submergence

device well.